

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/084841 A2

(51) International Patent Classification⁷:

A61K

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:

PCT/US2004/009135

(22) International Filing Date: 25 March 2004 (25.03.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10/401,936	27 March 2003 (27.03.2003)	US
10/431,155	7 May 2003 (07.05.2003)	US
10/444,940	22 May 2003 (22.05.2003)	US

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **HESKA CORPORATION** [US/US]; 1613 Prospect Parkway, Fort Collins, CO 80525 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **JENSEN, Wayne, A.** [US/US]; 9133 NCR #5, Wellington, CO 80549 (US). **HUNTER, Shirley, Wu** [US/US]; 2325 Tanglewood Drive, Fort Collins, CO 80525 (US). **SVERLOW, Karen, W.** [US/US]; 417 Boulder Lane, Schwenksville, PA 19473 (US).

(74) Agents: **VERSER, Carol, Talkington et al.**; Heska Corporation, 1613 Prospect Parkway, Fort Collins, CO 80525 (US).

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/084841 A2

(54) Title: NOVEL ANTI-FELINE ALBUMIN ANTIBODIES AND METHODS OF DETECTING EARLY RENAL DISEASE

(57) Abstract: The present invention provides isolated monoclonal antibodies that selectively bind albumin from animals. Also provided are methods using such antibodies for the detection of early renal disease in animals. The method includes the steps of (a) obtaining a sample from an animal to be tested; (b) contacting the sample with an antibody having a greater avidity for feline albumin than for other proteins or components in the sample; (c) detecting the complex formed by the antibody and albumin; and (d) determining the amount of albumin in the sample from the amount of antibody-albumin complex detected. An amount of albumin in the range of from 10 µg/ml to about 300 µg/ml indicates the presence of early renal disease.